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ABSTRACT

A study examined a set of 78 journal articles identified as influential in technical communication (published between 1988 and 1992) and a preliminary list of 63 articles frequently cited between 1993 and 1997. The texts were organized into six topical groups: profession, rhetoric and composition, document design, social construction and collaboration, and workplace communication. These topics identify the competencies and meta-skills with which technical communication directs its problem-solving activities. Results indicate that the competencies and accompanying meta-skills reveal the literacies (stories) associated with technical communication that establish its place as a discipline--in particular, concerns for document design, text production, and workplace communication. (The table listing texts frequently cited by authors in technical communication journals is presented.) (RS)

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Points of Reference in our Disciplinary Activities — ATTW

One way to identify the major figures in the history of ATTW and the field of technical communication is to review one of the forums—our journals. The authors have contributed to our conversations and the journals have recorded these conversations. The conversations form a significant portion of our knowledge base. We read the journals and refer to them as we build our knowledge base. Others also refer to our journals for a better understanding of technical communication.

I will identify the authors who have published frequently in the journals, and I will provide a brief characterization of their scholarship and contribution to the disciplinary activities of technical communication. Their texts have become frequent points of reference as we negotiate our disciplinary activities and build our knowledge base.

This presentation may be considered Part I of a two-part presentation. The texts identified form a significant portion of the knowledge base that identifies the competencies and meta-skills associated with technical communication. I will argue in my CCCC presentation that these competencies and meta-skills represent the discipline of technical communication—particularly, its concerns for document design, text production, and workplace communication.

Identifying Competencies—Developing Meta-skills — CCCC

Jimmie Killingsworth suggested at the 1997 CCCC that we may want to use the term *meta-skills* to describe what we study, research, and teach. [Killingsworth used the terms *myths* and *narratives*, not *meta-skills*, in his paper. As we discussed the *myths* associated with technical communication, some of us may have shifted to using *meta-skills*, a term out of the social sciences.] *Meta-skills*—What does the term mean? What are the meta-skills? Why does it describe our professional and disciplinary activities? How do meta-skills link our activities to the workplace?

To respond to the questions, I look at recent *history* to a set of 78 texts I identified as influential in our publications between 1988 and 1992 and a preliminary list of 63 texts frequently cited between 1993 and 1997. The texts are organized in six topical groups: Profession, Rhetoric and Composition, Document Design, Social Construction and Collaboration, and Workplace Communication. These topics identify the *competencies* and *meta-skills* with which technical communication directs its problem-solving activities.

I will argue that the competencies and accompanying meta-skills, reveal the *literacies* (*stories*) associated with technical communication that establish its place as a discipline—in particular, concerns for document design, text production, and workplace communication. But, I will argue that these competencies and meta-skills adapt to changes in communication needs and technology. [Killingsworth, M. Jimmie. "Technical Communication in the 21st Century: Where Are We Going?" *Conference on College Composition and Communication*. Phoenix, 15 March 1997.]

Meta-Skills

Rhetoric/Composition	Document Design	Social Construction Collaboration	Workplace Communication	Profession	Context of the Workplace
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Examples of Issues

Collaboration
 Editing TC
 Environmental Rhetoric
 Gender and TC
 HyperText/Hypermedia
 Web Communication
 Legal Writing
 Power and TC
 Rhetoric of Science
 Teaching
 Usability
 Visual Rhetoric
 Work Force Diversity

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Social Sciences	Rhetorical/Literary
competencies	myths
literacies	narratives
meta-skills	
concepts, procedures — problem-solving	

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Representative Text

The 78 most frequently cited texts were culled from the citations for 1988-1992. The list developing for 1993-1997 is representative of more recent citations in the technical communication journals. The texts are grouped under topics I am referring to as meta-skills, competencies, or literacies—terms I am exploring as part of my conference presentations. I welcome comments.

- I 1988-92 Most frequently cited texts from articles published in *IEEE*, *JBTC*, *JTWC*, *TC*, and *TWT/TCQ* (1988-1992).
- II 1993-97 **PRELIMINARY LIST** of frequently cited texts from articles published in *JBTC*, *JTWC*, and *TCQ* (1993-1997). **The list is incomplete.** I need to collect the citations from *IEEE* and *TC* and verify each entry.

Topic The topics refer broadly to the meta-skills or competencies that define technical communication. I have tentatively assigned a topic to most (but not all) of the text on the 1993-1997 list.

- P Profession
RC Rhetoric and Composition (includes rhetoric of science and technology)
DD Document Design
SC Social Construction and Collaboration
WC Workplace Communication
— not classified yet

Text Frequently Cited by Authors Publishing in the Technical Communication Journals *IEEE*, *JBTC*, *JTWC*, *TC*, and *TCQ*

I	II	Topic
	X —	Allen, Jo. "Gender Issues in Technical Communication Studies." <i>JBTC</i> 5 (1991): 371-92.
X	X SC	Allen, Nancy, Dianne Atkinson, Meg Morgan, Teresa Moore, and Craig Snow. "What Experienced Collaborators Say About Collaborative Writing." <i>JBTC</i> 1 (1987): 70-90.
X	X WC	Anderson, Paul V. "What Survey Research Tells Us About Writing at Work." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 3-83.
X	P	Anderson, Paul V., R. John Brockmann, and Carolyn R. Miller, eds. <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Farmingdale, NY: Baywood, 1983.
	X —	Anson, Chris M., and L. Lee Forsberg. "Moving Beyond the Academic Community." <i>WC</i> 7 (1990): 200-31.
X	DD	Atlas, M. A. "The User Edit: Making Manuals Easier to Use." <i>IEEE</i> 24 (1981): 28-29.
X	RC	Bakhtin, M. M. <i>The Dialogic Imagination</i> . Ed. Michael Holquist. Trans. Caryl Emerson and Michael Holquist. Austin: U of Texas P, 1981.
X	RC	Bakhtin, M. M. <i>Speech Genres and Other Late Essays</i> . Ed. Caryl and Michael Holquist. Trans. Vern W. McGee. Austin: U of Texas P, 1986.
X	—	Barabas, Christine. <i>Technical Writing in a Corporate Culture: A Study of the Nature of Information</i> . Norwood, NJ: Ablex, 1990.
X	DD	Barton, Ben F., and Marthalee S. Barton. "Simplicity in Visual Representation: A Semiotic Approach." <i>JBTC</i> 1 (1987): 9-26.
X	RC	Bazerman, Charles. "Scientific Writing as a Social Act: A Review of the Literature of the Sociology of Science." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 156-84.

X	X	RC	Bazerman, Charles. <i>Shaping Written Knowledge: The Genre and Activity of the Experimental Article in Science</i> . Madison: U W I P, 1988.
	X	WC	Bazerman, Charles, and James Paradis, eds. <i>Textual Dynamics of the Professions: Historical and Contemporary Studies of Writing in Professional Communities</i> . Madison: U of Wisconsin P, 1991.
	X	—	Beard, John D., Jone Rymer, and David L. Williams. "An Assessment System for Collaborative-Writing Groups: Theory and Empirical Evaluation." <i>JBTC</i> 3 (1989): 29-51.
X	X	SC	Belenky, Mary F., Blythe M. Clinchy, Nancy R. Goldberger, and Jill M. Tarule. <i>Women's Ways of Knowing: The Development of Self, Voice, and Mind</i> . New York: Basic Books, 1986.
X		DD	Benson, Philippa J. "Writing Visually: Design Considerations in Technical Publications." <i>TC</i> 32 (1985): 35-39.
X	X	DD	Bernhardt, Stephen. "Seeing the Text." <i>CCC</i> 37 (1986): 66-78.
X		DD	Bethke, Frederick J. "Measuring the Usability of Software Manuals." <i>TC</i> 30 (1983): 13-16.
	X	—	Bolter, Jay David. <i>Writing Space: The Computer, Hypertext, and the History of Writing</i> . Hillsdale: Lawrence Erlbaum, 1991.
	X	—	Bosley, Deborah. "Cross-Cultural Collaboration: Whose Culture Is It, Anyway?" <i>TCQ</i> 2 (1993): 51-62.
X		RC	Bransford, J. D., and M. K. Johnson. "Contextual Prerequisites for Understanding: Some Investigations of Comprehension and Recall." <i>J of Verbal Learning and Verbal Behavior</i> 11 (1972): 717-26.
X		WC	Broadhead, Glenn J., and Richard C. Freed. <i>Variables in Composition: Process and Product in a Business Setting</i> . Carbondale, IL: So IL P, 1986.
X		DD	Brockmann, R. John. <i>Writing Better Computer User Documentation: From Paper to Online</i> . New York: Wiley-Interscience, 1986.
X	X	WC	Brown, Robert L., and Carl G. Herndl. "An Ethnographic Study of Corporate Writing: Job Status as Reflected in Written Text." <i>Functional Approaches to Writing: Research Perspectives</i> . Ed. Barbara Couture. London: Frances Pinter, 1986. 11-28.
X	X	SC	Bruffee, Kenneth. "Collaborative Learning and the Conversation of Mankind." <i>CE</i> 46 (1984): 635-52.
X	X	SC	Bruffee, Kenneth. "Social Construction, Language, and the Authority of Knowledge: A Bibliographical Essay." <i>CE</i> 48.8 (1986): 773-90.
X		DD	Buehler, Mary Fran. "Defining Terms in Technical Editing: The Levels of Edit as a Model." <i>TC</i> 28 (1981): 10-14.
	X	SC	Burnett, Rebecca E. "Conflict in Collaborative Decision-Making." <i>Professional Communication: The Social Perspective</i> . Eds. Nancy Roundy Blyler and Charlotte Thralls. Newbury Park, CA: Sage, 1993.
X		DD	Conklin, James. "Hypertext: An Introduction and Survey." <i>Computer</i> 20 (1987): 17-41.
	X	P	Connors, Robert J. "Technical Writing Instruction in America." <i>JTWC</i> 12 (1982): 329-52.
X		SC	Cooper, Marilyn M. "The Ecology of Writing." <i>CE</i> 48 (1986): 364-75.

X	SC	Couture, Barbara, and Jone Rymer. "Interactive Writing on the Job: Definitions and Implications of 'Collaboration.'" <i>Writing in the Business Professions</i> . Ed. Myra Kogen. Urbana, IL: NCTE, 1989. 73-93.
X	WC	Deal, T. E., and A. A. Kennedy. <i>The Corporate Culture: The Rites and Rituals of Corporate Life</i> . Reading, MA: Addison-Wesley, 1982.
X	P	Dobrin, David N. "What's Technical about Technical Writing." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 227-50.
X	X	P Dobrin, David N. <i>Writing and Technique</i> . Urbana, IL: NCTE, 1989.
X	X	SC Doheny-Farina, Stephen. "Writing in an Emerging Organization." <i>WC</i> 3 (1986): 158-85.
X	WC	Doheny-Farina, Stephen, and Lee Odell. "Ethnographic Research on Writing." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 503-35.
X	X	RC Ede, Lisa, and Andrea Lunsford. "Audience Addressed/Audience Invoked: The Role of Audience in Composition Theory and Pedagogy." <i>CCC</i> 35 (1984): 155-71.
X	X	SC Ede, Lisa, and Andrea Lunsford. <i>Singular Texts/Plural Authors: Perspectives on Collaborative Writing</i> . Carbondale, IL: So IL UP, 1990.
X	X	P Faigley, Lester. "Nonacademic Writing: The Social Perspective." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 231-80.
X	X	WC Faigley, Lester, and Thomas Miller. "What We Learn from Writing on the Job." <i>CE</i> 44 (1982): 557-69.
X	DD	Felker, Daniel B., ed. <i>Document Design: A Review of the Relevant Research</i> . Washington, DC: American Institutes for Research, 1980.
X	DD	Felker, Daniel B., Frances Pickering, Veda R. Charrow, V. Melissa Holland, and Janice C. Redish. <i>Guidelines for Document Designers</i> . Washington, DC: American Institutes for Research, 1981.
X	RC	Fish, Stanley. <i>Is There a Text in This Class? The Authority of Interpretive Communities</i> . Cambridge, MA: Harvard UP, 1980.
X	RC	Flower, Linda, and John Hayes. "The Cognition of Discovery: Defining a Rhetorical Problem." <i>CCC</i> 31(1980): 21-32.
X	RC	Flower, Linda, John R. Hayes, Linda Carey, Karen Schriver, and James Stratman. "Detection, Diagnosis, and the Strategies of Revision." <i>CCC</i> 37 (1986): 16-55.
X	RC	Flower, Linda, John R. Hayes, and Heidi Swarts. "Revising Functional Documents: The Scenario Principle." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 41-58.
X	X	SC Forman, Janis, and Patricia Katsky. "The Group Report: A Problem in Small Group or Writing Processes?" <i>JBC</i> 23 (1986): 23-35.
X	RC	Foucault, Michel. "What is an Author?" <i>Language, Counter-Memory, Practice: Selected Essays and Interviews</i> . Ed. Donald F. Bouchard. Trans. Donald F. Bouchard and Sherry Simon. Ithaca, NY: Cornell UP, 1977. 113-38.

X	SC	Freed, Richard C., and Glenn J. Broadhead. "Discourse Communities, Sacred Texts, and Institutional Norms." <i>CCC</i> 38 (1987): 154-65.
X	SC	Geertz, Clifford. <i>The Interpretation of Cultures</i> . New York: Basic Books, 1973.
X	SC	Geertz, Clifford. <i>Local Knowledge</i> . New York: Basic Books, 1983.
X	—	Gilligan, Carol. <i>In a Different Voice: Psychological Theory and Women's Development</i> . Cambridge: Harvard UP, 1982.
X	RC	Gross, Alan G. <i>The Rhetoric of Science</i> . Cambridge: Harvard UP, 1990.
X	SC	Hall, Edward T., and Mildred Reed Hall. <i>Understanding Cultural Differences</i> . Yarmouth: Intercultural P, 1990.
X	RC	Halloran, S. Michael, and Annette Norris Bradford. "Figures of Speech in the Rhetoric of Science and Technology." <i>Essays on Classical Rhetoric and Modern Discourse</i> . Eds. Robert J. Connors, Lisa S. Ede, and Andrea A. Lunsford. Carbondale, IL: So IL UP, 1984. 179-92.
X	SC	Harrison, Teresa M. "Frameworks for the Study of Writing in Organizational Contexts." <i>WC</i> 4 (1987): 3-23.
X	DD	Hartley, James. <i>Designing Instructional Text</i> . 2nd ed. New York: Nichols, 1985.
X	WC	Herndl, Carl, Barbara Fennell, and Carolyn Miller. "Understanding Failures in Organizational Discourse: The Accident at Three Mile Island and the Shuttle Challenger Disaster." <i>Textual Dynamics of the Professions</i> . Eds. Charles Bazerman and James Paradis. Madison: U of Wisconsin, 1991. 279-305.
X	RC	Huckin, Thomas. "A Cognitive Approach to Readability." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 90-108.
X	RC	Just, Marcel A., and Patricia A. Carpenter. <i>The Psychology of Reading Language Comprehension</i> . Boston, MA: Allyn and Bacon, 1987.
X	RC	Katz, Stephen B. "The Ethic of Expediency: Classical Rhetoric, Technology, and the Holocaust." <i>CE</i> 54 (1992): 255-75.
X	WC	Killingsworth, M. Jimmie, and Betsy Jones. "Division of Labor or Integrated Teams: Management Crux." <i>TC</i> 36 (1989): 210-21.
X	RC	Killingsworth, M. Jimmie, and Jacqueline S. Palmer. <i>Ecospeak: Rhetoric and Environmental Politics in America</i> . Carbondale: Southern Illinois UP, 1992.
X	RC	Killingsworth, M. Jimmie, and Michael K. Gilbertson. <i>Signs, Genres, and Communities in Technical Communication</i> . Amityville, NY: Baywood, 1992.
X	RC	Kinneavy, James L. <i>A Theory of Discourse: The Aims of Discourse</i> . New York: W W Norton, 1971.
X	RC	Kintsch, W., and T. A. van Dijk. "Toward a Model of Text Comprehension and Production." <i>Psychological Review</i> 85 (1978): 363-94.
X	X	Kuhn, Thomas S. <i>The Structure of Scientific Revolutions</i> . 2nd ed. Chicago: U Chicago P, 1970.
X	RC	Latour, Bruno. <i>Science in Action: How to Follow Scientists and Engineers through Society</i> . Cambridge: Harvard UP, 1987.

X	RC	Latour, Bruno, and Steve Woolgar. <i>Laboratory Life: The Social Construction of Scientific Texts</i> . Beverly Hills, Sage, 1979.
X	P	Lauer, Janice M., and J. William Asher. <i>Composition Research: Empirical Designs</i> . New York: Oxford UP, 1988.
X	SC	Lay, Mary M., and William M. Karis, eds. <i>Collaborative Writing in Industry: Investigations in the Theory and Practice</i> . Amityville, NY: Baywood, 1991.
X	—	Lay, Mary M. "Feminist Theory and the Redefinition of Technical Communication." <i>JBTC</i> 5 (1991): 348-70.
X	X SC	Lay, Mary M. "Interpersonal Conflict in Collaborative Writing: What We Can Learn from Gender Studies." <i>JBTC</i> 3 (1989): 5-28.
X	SC	Lipson, Carol. "A Social View of Technical Writing." <i>JBTC</i> 2 (1988): 7-20.
X	SC	Lunsford, Angela, and Lisa Ede. "Why Write . . . Together: A Research Update." <i>Rhetoric Review</i> 5 (1986): 71-81.
X	—	Lyotard, Jean-Francois. <i>The Postmodern Condition: A Report on Knowledge</i> . Trans. Geoff Bennington and Brian Massumi. Minneapolis: U of Minnesota P, 1984.
X	X RC	Miller, Carolyn R. "Genre as Social Action." <i>Quarterly J of Speech</i> 70 (1984): 151-67.
X	X P	Miller, Carolyn R. "A Humanistic Rationale for Technical Writing." <i>CE</i> 40 (1979): 610-17.
X	RC	Miller, Carolyn R. "Invention in Technical and Scientific Discourse: A Prospective Survey." <i>Research in Technical Communication: A Bibliographic Sourcebook</i> . Eds. Michael G. Moran and Debra Journet. Westport, CT: Greenwood, 1985. 117-162.
X	X RC	Miller, Carolyn R. "Technology as a Form of Consciousness: A Study of Contemporary Ethos." <i>Central States Speech J</i> 29 (1978): 228-36.
X	P	Miller, Carolyn R. "What's Practical About Technical Writing?" <i>Technical Writing: Theory and Practice</i> . Ed. Bertie E. Fearing and W. Keats Sparrow. New York: MLA, 1989. 14-24.
X	RC	Miller, Carolyn R., and Jack Selzer. "Special Topics of Argument in Engineering Reports." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 309-41.
X	DD	Mills, Carol B., and Kenneth L. Dye. "Usability Testing: User Reviews." <i>TC</i> 32 (1985): 40-4.
X	P	Moran, Michael G., and Debra Journet. <i>Research in Technical Communication: A Bibliographic Sourcebook</i> . Westport, CT: Greenwood, 1985.
X	P	Moran, Michael G. "The History of Technical and Scientific Writing." <i>Research in Technical Communication: A Bibliographic Sourcebook</i> . Eds. Michael G. Moran and Debra Journet. Westport, CT: Greenwood, 1985. 25-38.
X	SC	Morgan, Meg, Nancy Allen, Teresa Moore, Dianne Atkinson, and Craig Snow. "Collaborative Writing in the Classroom." <i>Bulletin of Association for Business Communication</i> 50 (1987): 20-26.
X	WC	Myers, Greg. "The Social Construction of Two Biologists' Proposals." <i>WC</i> 2 (1985): 219-45.
X	SC	Myers, Greg. <i>Writing Biology: Texts in the Social Construction of Scientific Knowledge</i> . Madison: U of Wisconsin P, 1990.

X	—	Neely, Kathryn A. "Woman as Mediatrix: Women as Writers on Science and Technology in the Eighteenth and Nineteenth Centuries." <i>IEEE</i> 35 (1992): 208-16.
X	X WC	Odell, Lee. "Beyond the Text: Relations Between Writing and Social Context." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 249-80.
X	WC	Odell, Lee, and Dixie Goswami. "Writing in a Non-Academic Setting." <i>RTE</i> 16 (1982): 201-23.
X	X WC	Odell, Lee, and Dixie Goswami, eds. <i>Writing in Nonacademic Settings</i> . New York: Guilford, 1985.
X	WC	Odell, Lee, Dixie Goswami, Anne Herrington, and Doris Quick. "Studying Writing in Non-Academic Settings." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 17-40.
X	X WC	Paradis, James, David Dobrin, and Richard Miller. "Writing at Exxon ITD: Notes on the Writing Environment of an R&D Organization." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 281-307.
X	RC	Perelman, Chaim, and Lucie Olbrechts-Tyteca. <i>The New Rhetoric: A Treatise on Argumentation</i> . Trans. John Wilkinson and Purcell Weaver. Notre Dame: U of Notre Dame P, 1969.
X	WC	Peters, Thomas J., and Robert H. Waterman, Jr. <i>In Search of Excellence: Lessons from America's Best-Run Companies</i> . New York: Harper & Row, 1982.
X	RC	Prelli, Lawrence. <i>A Rhetoric of Science: Inventing Scientific Discourse</i> . Columbia: U of South Carolina P, 1989.
X	DD	Price, Jonathan. <i>How to Write a Computer Manual: A Handbook of Software Documentation</i> . Menlo Park, CA: Benjamin Cummings, 1984.
X	DD	Redish, Janice C., Robbin M. Battison, and Edward S. Gold. "Making Information Accessible to Readers." <i>Writing in Nonacademic Settings</i> . Eds. Lee Odell and Dixie Goswami. New York: Guilford, 1985. 129-54.
X	P	Rutter, Russell. "History, Rhetoric, and Humanism: Toward A More Comprehensive Definition of Technical Communication." <i>JTWC</i> 21 (1991): 133-53.
X	DD	Schell, D. A. "Testing Online and Print User Documentation." <i>IEEE</i> 29 (1986): 87-92.
X	WC	Selzer, Jack. "The Composing Process of an Engineer." <i>CCC</i> 34 (1983): 178-87.
X	DD	Shneiderman, Ben. <i>Designing the User Interface: Strategies for Effective Human-Computer Interaction</i> . Reading, MA: Addison-Wesley, 1987.
X	DD	Soderston, Candace. "The Usability Edit: A New Level." <i>TC</i> 32 (1985): 16-18.
X	WC	Spilka, Rachel, ed. <i>Writing in the Workplace: New Research Perspectives</i> . Carbondale: So Illinois P, 1993.
X	P	Stine, Donna, and Donald Skarzenski. "Priorities for the Business Communication Classroom: A Survey of Business and Academe." <i>JBC</i> 3 (1989): 53-63.
X	P	Sullivan, Dale L. "Political-Ethical Implications of Defining Technical Communication as a Practice." <i>JAC</i> 10 (1990): 375-86.

X	RC	Swarts, Heidi, Linda A. Flower, and John R. Hayes. "How Headings in Documents Can Mislead Readers." <i>Document Design Project Technical Report No. 9</i> . Pittsburgh: Carnegie Mellon P, 1980.
X	—	Tebeaux, Elizabeth. "Toward an Understanding of Gender Differences in Written Business Communications: A Suggested Perspective for Future Research." <i>JBTC</i> 4 (1990): 25-43.
X	SC	Trimbur, John. "Consensus and Difference in Collaborative Learning." <i>CE</i> 51 (1989): 602-16.
X	DD	Tufte, Edward R. <i>Envisioning Information</i> . Cheshire, CT: Graphics P, 1990.
X	X DD	Tufte, Edward R. <i>The Visual Display of Quantitative Information</i> . Cheshire, CT: Graphics P, 1983.
X	—	Weiss, Timothy. "'Ourselves Among Others': A New Metaphor for Business and Technical Writing." <i>TCQ</i> 1 (1992): 23-36.
X	DD	Weiss, E. H. <i>How to Write a Usable User Manual</i> . Philadelphia: ISI P, 1985.
X	RC	Winkler, Victoria M. "The Role of Models in Technical and Scientific Writing." <i>New Essays in Technical and Scientific Communication: Research, Theory, Practice</i> . Eds. Paul V. Anderson, R. John Brockmann, and Carolyn R. Miller. Farmingdale, NY: Baywood, 1983. 156-84.
X	W	Winsor, Dorothy. "The Construction of Knowledge in Organizations: Asking the Right Questions about the Challenger." <i>JBTC</i> 4 (1990): 7-21.

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Journal	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Total	
IEEE	33	46	38	32	35						184	articles
	325	923	480	634	649						3011	citations
JBTC	10	6	7	21	13	21	21	20	24	24	167	articles
	386	260	219	695	585	726	974	602	718	627	5792	citations
JTWC	22	23	22	25	24	28	32	26	37	33	272	articles
	416	399	348	487	520	528	425	415	537	504	4579	citations
TC	30	30	33	29	28						150	articles
	260	568	225	595	686						2334	citations
TCQ	19	18	19	17	18	23	19	18	16	23	190	articles
	282	283	389	241	599	690	692	586	425	644	4831	citations
Total	114	123	119	124	118	72	72	64	77	80	963	articles
	1669	2433	1661	2652	3039	1944	2091	1603	1680	1775	20547	citations

I plan to add citations from the articles in *Business Communication Quarterly* and *Journal of Business Communication*, and possibly *Management Communication* and *Written Communication*, for 1993-97.